

Applicants: William C. Olson and Paul J. Maddon  
Serial No.: 09/464,902  
Filed December 16, 1999  
Page 4

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1-86. (Canceled)

87. (Currently Amended) An isolated nucleic acid molecule encoding ~~one or more~~ a polypeptide comprising consecutive amino acids the sequence of which is identical to the sequence of a CDR regions region of an anti-chemokine receptor 5 (CCR5) present in an anti-CCR5 antibody or a portion thereof, which antibody is selected from the group consisting of monoclonal antibody designated PA 14 (ATCC Accession No. HB-12610), monoclonal antibody designated PA 8 (ATCC Accession No. HB-12605), monoclonal antibody designated PA 9 (ATCC Accession No. HB-12606), monoclonal antibody designated PA 10 (ATCC Accession No. HB-12607), monoclonal antibody designated PA 11 (ATCC Accession No. HB-12608), ~~or~~ and monoclonal antibody designated PA 12 (ATCC Accession No. HB-12609).

88. (Previously Presented) The nucleic acid molecule of claim 87, wherein the nucleic acid molecule is an RNA molecule, DNA molecule or cDNA molecule.

89-90. (Canceled)

91. (Currently Amended) The nucleic acid molecule according to claim 87, wherein the ~~CDR regions bind~~ polypeptide

Applicants: William C. Olson and Paul J. Maddon  
Serial No.: 09/464,902  
Filed December 16, 1999  
Page 5

binds to an epitope of CCR5, ~~said~~ which epitope comprises amino acid residues in (1) an N-terminus of CCR5, (2) ~~amino acid residues in~~ one of three extracellular loop regions of CCR5, or (3) a combination thereof.

92. (Currently Amended) The nucleic acid molecule according to claim 87, wherein the ~~CDR-region~~ polypeptide is ~~comprised within~~ an Fab portion of ~~the~~ an antibody.

93. (Currently Amended) The nucleic acid molecule according to claim 87, wherein the ~~CDR-region~~ polypeptide is ~~comprised within~~ a variable domain of ~~the~~ an antibody.

94. (Currently Amended) The nucleic acid molecule according to claim 87, wherein the ~~CDR-region~~ polypeptide is ~~comprised within~~ an F(ab')<sub>2</sub> portion of ~~the~~ an antibody.

95. (Currently Amended) The nucleic acid molecule according to claim 87, wherein the nucleic acid ~~coding the CDR region~~ is ~~comprised~~ present in a hybridoma selected from the group of hybridomas consisting of PA 14 (ATCC Accession No. HB-12610), PA 8 (ATCC Accession No. HB-12605), PA 9 (ATCC Accession No. HB-12606), PA 10 (ATCC Accession No. HB-12607), PA 11 (ATCC Accession No. HB-12608), and PA 12 (ATCC Accession No. HB-12609).

96-97. (Canceled)

98. (Currently Amended) The nucleic acid molecule according to claim ~~96~~ 95, wherein the portion of the antibody is an Fab portion ~~of the antibody~~.

Applicants: William C. Olson and Paul J. Maddon  
Serial No.: 09/464,902  
Filed December 16, 1999  
Page 6

99. (Currently Amended) The nucleic acid molecule according to claim ~~96~~ 95, wherein the portion of the antibody is a variable domain ~~of the antibody~~.
100. (Currently Amended) The nucleic acid molecule according to claim ~~96~~ 95, wherein the portion of the antibody is an F(ab')<sub>2</sub> portion ~~of the antibody~~.
101. (Canceled)
102. (New) The nucleic acid molecule of claim 87, wherein the antibody is monoclonal antibody PA14.
103. (New) The nucleic acid molecule according to claim 87, wherein the polypeptide is a heavy chain of an antibody.
104. (New) The nucleic acid molecule according to claim 87, wherein the polypeptide is a light chain of an antibody.
105. (New) The nucleic acid molecule according to claim 87, wherein the polypeptide is a single chain antibody comprising heavy and light chains.
106. (New) The nucleic acid molecule according to claim 95, wherein the hybridoma is PA14 (ATCC Accession No. HB-12610).
107. (New) The nucleic acid molecule according to claim 95, wherein the portion of the antibody is a heavy chain.
108. (New) The nucleic acid molecule according to claim 95, wherein the portion of the antibody is a light chain.

Applicants: William C. Olson and Paul J. Maddon  
Serial No.: 09/464,902  
Filed December 16, 1999  
Page 7

109. (New) The nucleic acid molecule according to claim 95,  
wherein the polypeptide is a single chain antibody  
comprising heavy and light chains.